**Essential Question**: How would your favorite sport change if the US adopted the metric system as its official measurement system?

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| **Content and Substance**  AL Course of Study Science Obj. 1   * Apply appropriate units and significant figures to express measurements and calculated results. * Express measurements in appropriate System International (SI) units. * Use appropriate mathematics in all aspects of scientific inquiry. | **Organization of Knowledge**   * Video “Why We Need the Metric System…*American Chopper* versus The Metric System” * Review Standards of Measurment and Metric System * “How are measurements used in sports?” Round Robin and make a Class Chart. * Students work in pairs to answer the Essential Question: research on first day, complete a “Voicethread” second day, present to the class on the third day. |
| **Clear and Compelling Product Standards**   * “Voicethread” Example and Tutorial are shared in class. * Scoring Guide and Checklist on First Day | **Protection from adverse consequences for initial failures**   * Students’ *Voicethread* can be monitored online for accuracy. * Students receive feedback through Wiki Page |
| **Product Focus**   * Students create a *Voicethread* to present their research and answer to the Essential Question. | **Affirmation of performance**   * *Voicethread*s are published and searchable on the Voicethread main site and may be linked to the Trussville Sharepoint site. |
| **Affiliation**   * Student pairs work independently and together to find ways their sport is measured. * If their sport is measured in Customary units, they must offer examples of how the measurements would change using the metric system. * Both students narrate their findings using *Voicethread*. * During presentation, student pairs present the Voice thread and answer questions from the class. | **Novelty and Variety**   * *Voicethread* is likely a new type of presentation multimedia for students. * Students use pictures and narration to present their research. * Students will also record their research in writing over the Wiki Site our class uses for projects. |
| **Choice**   * Students choose their partner and their favorite sport or pastime. * Students have creative freedom to present their research however they like using *Voicethread* as a presentation tool. | **Authenticity**   * Sports * System of Measurements * Using digital technology to present research in a format other than paper and pencil. |